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6030/01

October/November 2008

2 hours 45 minutes

Additional Materials: A2 Drawing Paper (1 sheet)
Answer Paper
Coloured crayons
Metric scale rule, scale 1:5
Standard drawing equipment

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.
Write in dark blue or black pen.
You may use a soft pencil for any diagrams, graphs or rough working.
Do not use staples, paper clips, highlighters, glue or correction fluid.
DO NOT WRITE IN ANY BARCODES.

Section I Part A

Answer **all** parts of Section 1 Part A.
Write your answers in the spaces provided on the Question Paper.

Section I Part B

Answer any **two** questions.
Write your answers on the separate Answer Paper provided.

Section II

Answer **all** parts of this section.
Use the A2 sheet of Drawing Paper prepared prior to the examination
for your answers.
All dimensions are in millimetres.

At the end of the examination, fasten all your work securely together.
The number of marks is given in brackets [] at the end of each question
or part question.

| For Examiner's Use | | |
|--------------------|----|--|
| Section IA | | |
| Section IB | 10 | |
| | 11 | |
| | 12 | |
| | 13 | |
| Section II | | |
| TOTAL | | |

This document consists of **13** printed pages and **3** blank pages.

Section I Part A

Answer **all** questions from this Part in the spaces provided on the question paper.

You are advised to spend no longer than 35 minutes on this Part.

For
Examiner's
Use

- 1 Fig. 1 shows two cutouts which are used to house manufactured boards in the construction of drawers and cabinets.

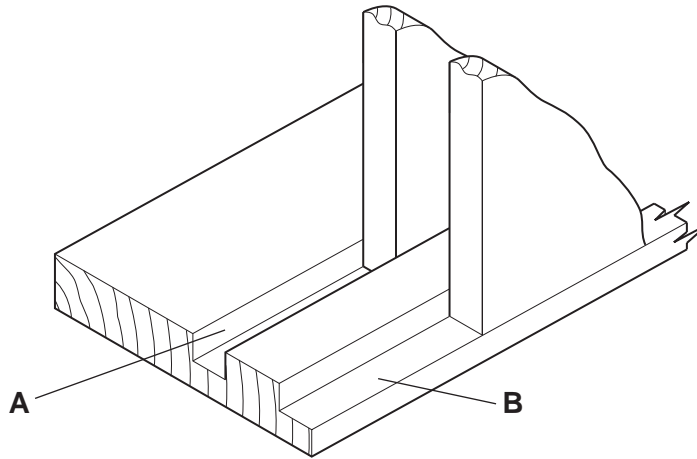


Fig. 1

- (i) Name each cutout.

Cutout A

Cutout B [2]

- (ii) Name the tool which would be used to **mark** out each cutout.

Tool to **mark** out A

Tool to **mark** out B [2]

2 Four joints used in construction are shown in Fig. 2.

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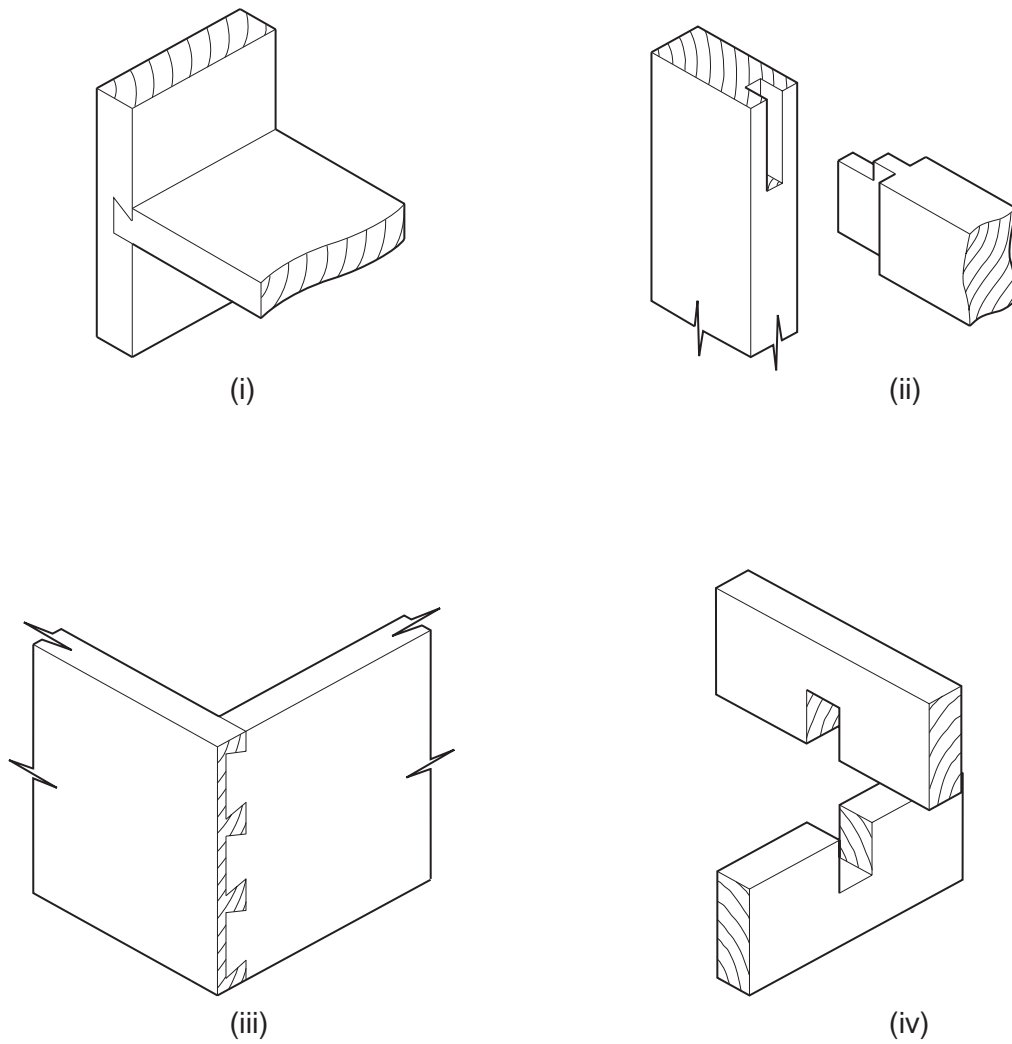


Fig. 2

Name each joint.

- (i)
- (ii)
- (iii)
- (iv) [4]

- 3 When using tools with sharp edges it is necessary to work safely.

Name **two** rules which must be followed when using tools which have sharp edges.

Rule 1

Rule 2[2]

- 4 (a) Name the tools shown in Fig. 3.

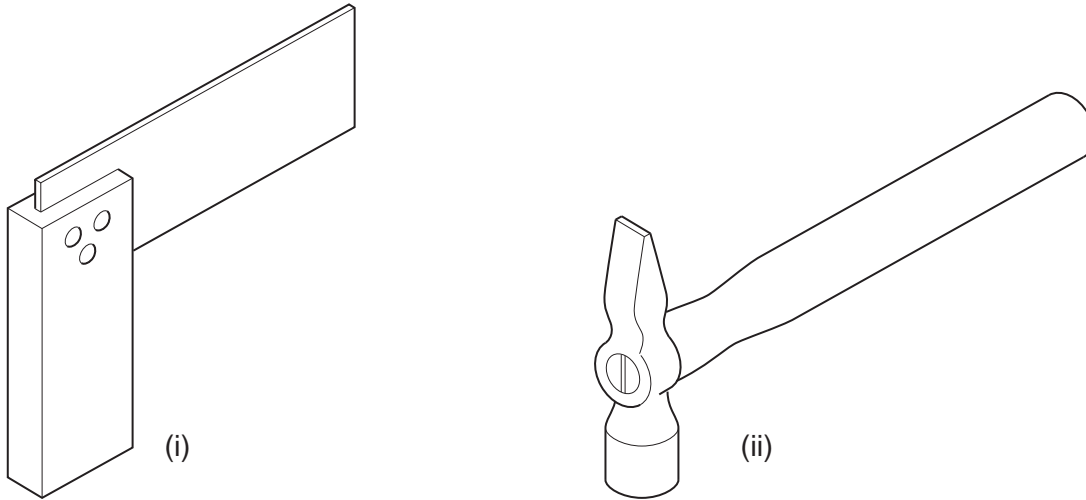


Fig. 3

Tool (i)

Tool (ii)[2]

- (b) State the main use of the tools shown in Fig. 3.

Use of tool (i)

Use of tool (ii)[2]

- 5 When preparing wood to size it is necessary to label the true surfaces from which marking out is done. These datum marks are shown in Fig. 4.

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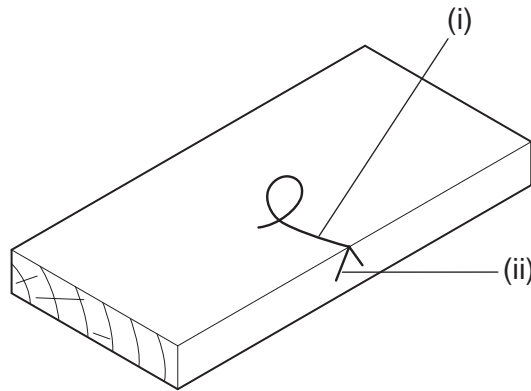


Fig. 4

Name datum mark (i)

Name datum mark (ii)[2]

- 6 Defects occur in boards. Two defects are shown in Fig. 5.

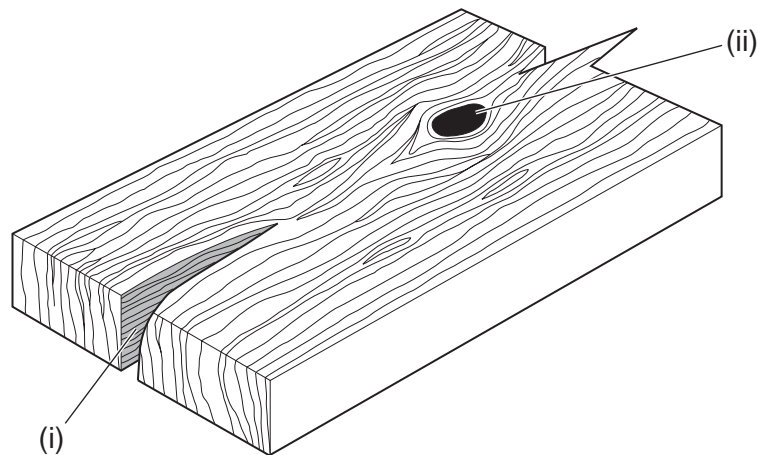


Fig. 5

Name defect (i)

Name defect (ii)[2]

- 7 Fig. 6 shows the cross section of tree trunks showing two methods of conversion. Name each method.

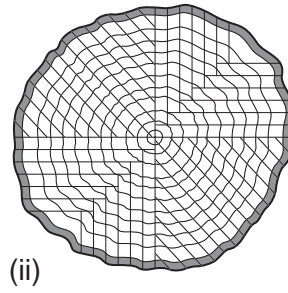
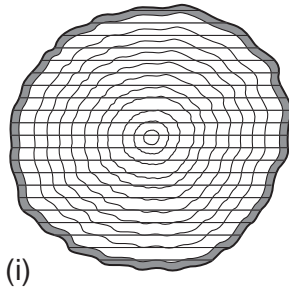


Fig. 6

Conversion method (i)

Conversion method (ii) [2]

- 8 The corners of two manufactured boards are shown in Fig. 7. Name the boards.

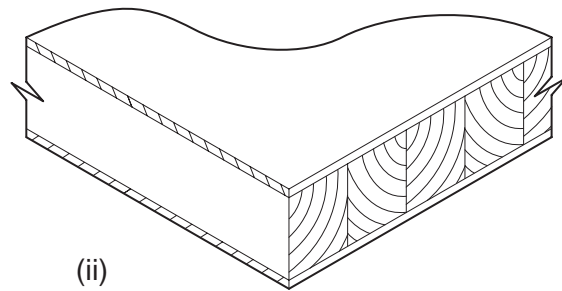
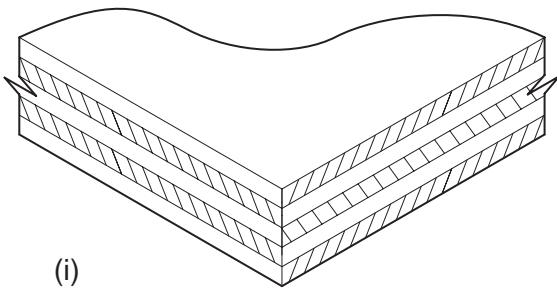


Fig. 7

Board (i)

Board (ii) [2]

- 9 Fig. 8 shows a chisel which is used for cutting joints.

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Use

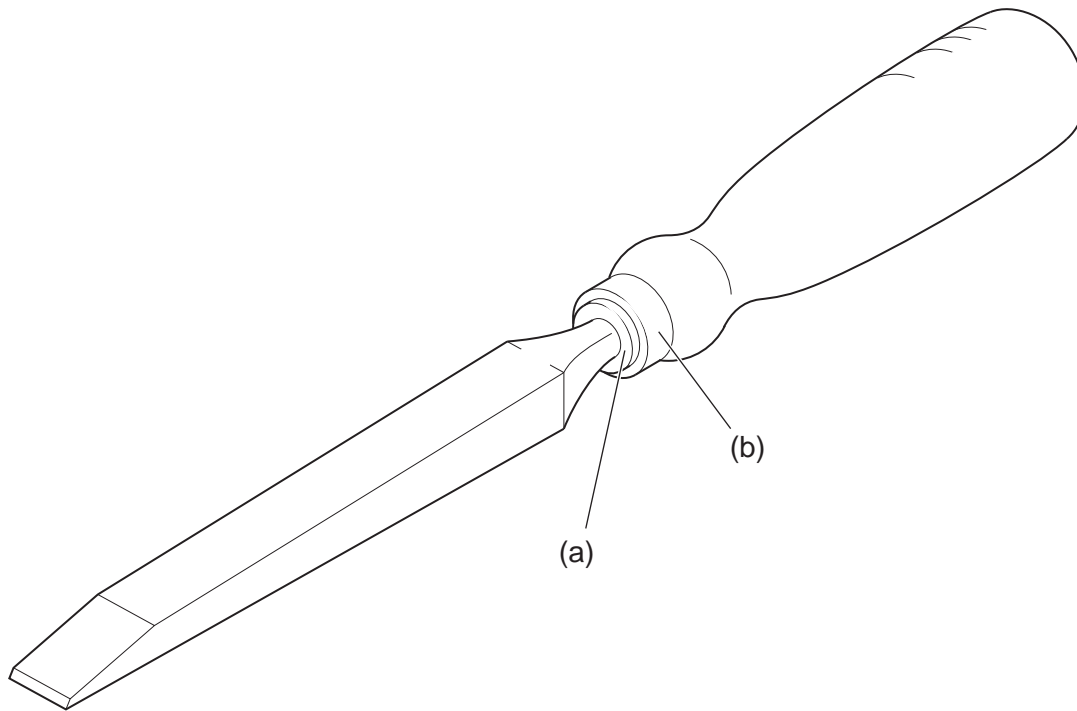


Fig. 8

- (i) Name the chisel
- (ii) Name the parts labelled: (a)
(b)[3]

Section I Part B

Answer any **two** questions from this Part on the separate answer paper provided.

You are advised to spend no longer than 35 minutes on this Part.

- 10** Fig. 9 shows an exploded view of a shelf bracket to support a plant pot. The shelf bracket is to be attached to the wall.

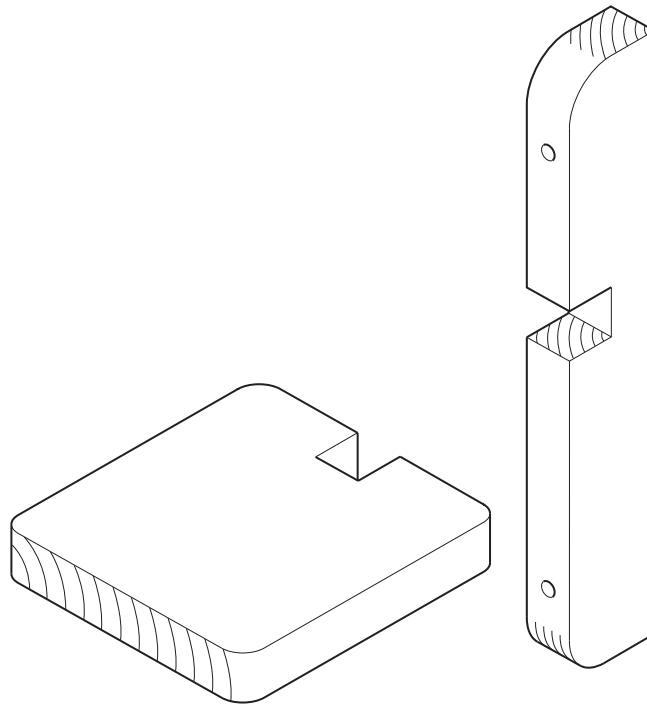


Fig. 9

Using notes and sketches describe how you would:

- (i) mark out the joint; [4]
- (ii) cut the joint; [4]
- (iii) mark out and shape one of the curves on the shelf or bracket using hand tools only. [4]

11 A pictorial view of part of a tree trunk is shown in Fig. 10.

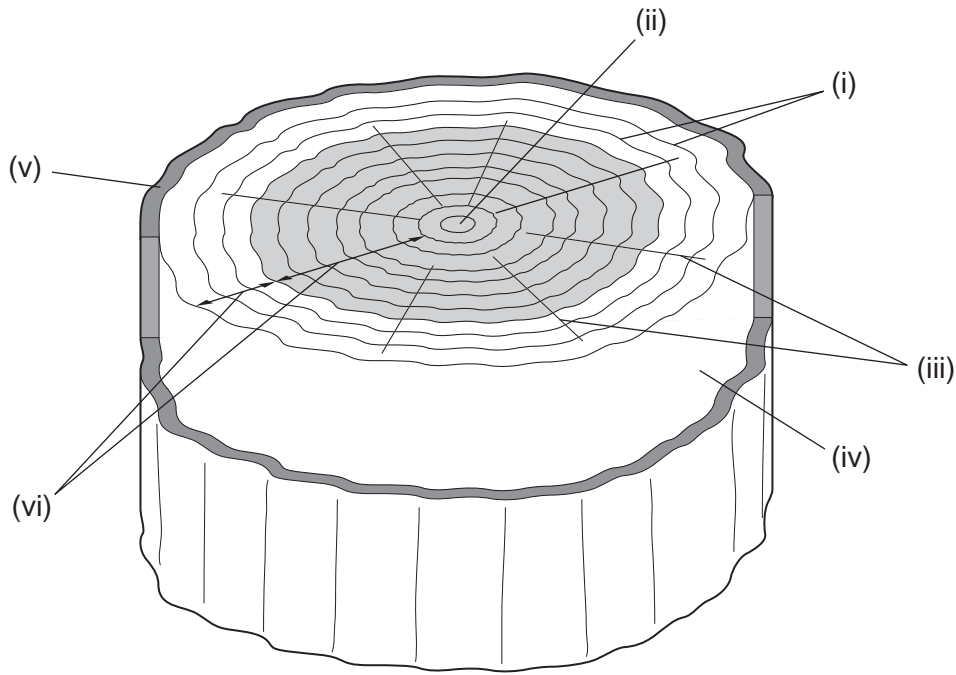


Fig. 10

Name each of the parts labelled and briefly describe their function in the growing life of the tree.

- | | | |
|-------|--|-----|
| (i) | The lines that are parallel to the circumference of the tree | [2] |
| (ii) | The very centre of the tree | [2] |
| (iii) | The lines that go from the centre to the outside of the tree | [2] |
| (iv) | The layer beneath the outer covering of the tree | [2] |
| (v) | The outside covering of the tree | [2] |
| (vi) | The dark and lighter sections of the tree trunk | [2] |

12 Fig. 11 shows details of a joint used in cabinet constructions.

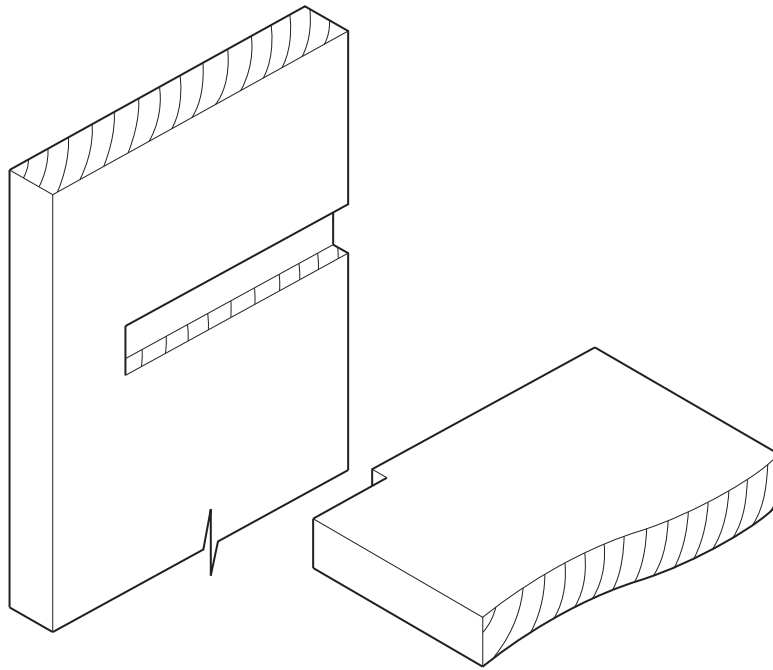


Fig. 11

- (a) Name the joint shown in Fig. 11. [2]
- (b) Using notes and sketches and naming all tools used, describe how you would:
- (i) mark out both parts of the joint; [5]
 - (ii) cut the joint. [5]

- 13** Fig. 12 shows details of the top corner of a door and the upright of the frame, with a hinge in position.

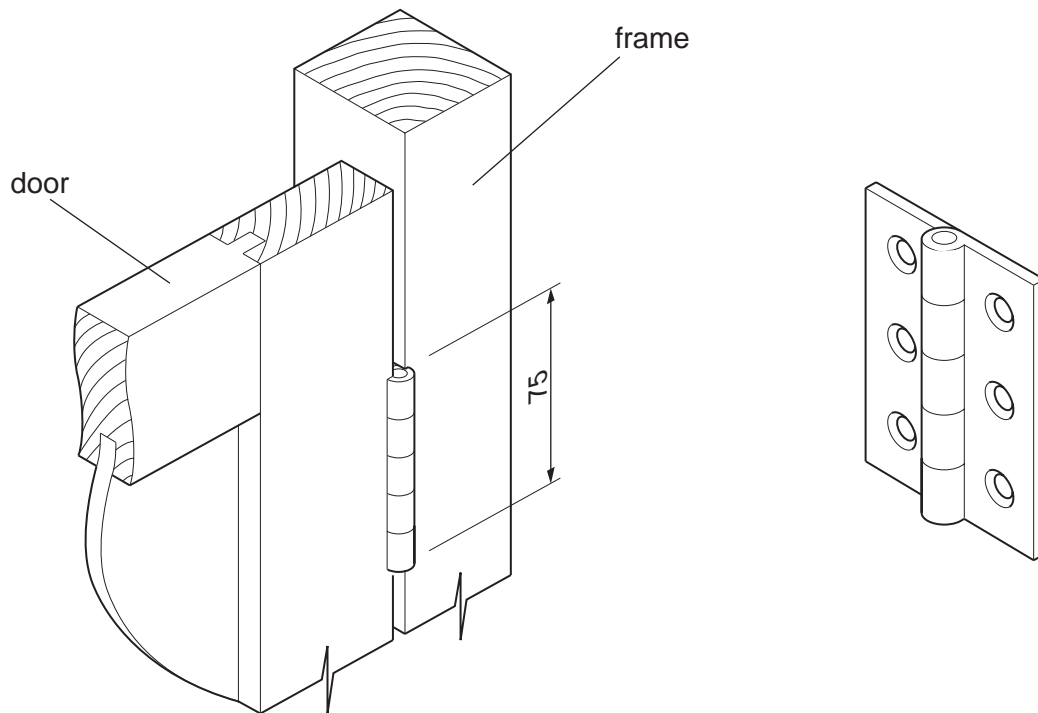


Fig. 12

Using notes and sketches and naming all tools used, describe how you would:

- | | |
|---|-----|
| (i) mark out either the door or the frame to receive the hinge; | [5] |
| (ii) remove the waste to take the hinge; | [4] |
| (iii) fit the hinge. | [3] |

Section II Drawing and Design

Answer **all** questions from this Part on the previously prepared Drawing Paper.

Use **one** side of the Drawing Paper only.

You will be required to draw part of this section to a scale of 1 : 5.

You are advised to spend 1 hour 35 minutes on this Section.

The drawing on Page 13, Fig. 13 shows details of a small table which includes storage. The underframe is made from solid wood. Legs are 34 mm square. The top is faced manufactured board which is edged all round with a hardwood lipping. Below the top there is a sliding surface which almost doubles the area of the top. Below the sliding top is a drawer which is of traditional construction. The size of parts not given are left to your discretion.

Part C

Sketch freehand and approximately full size:

- (i) an exploded view of the joint you would use to join the bottom rail to the leg at **A**; [8]
- (ii) a design for a handle for the drawer front; [5]
- (iii) any shaping to parts of the framework. [3]

Part D

(a) Draw in first or third angle projection, using a scale of 1 : 5 (hidden detail is not required):

- (i) a front view in the direction of arrow **Y**; [10]
- (ii) a sectional end view on the line **XX**; [10]
- (iii) a plan. [3]

(b) Add to your drawings **six** main dimensions. [3]

(c) In the Title Box include the following details in suitable lettering:

- (i) a title;
- (ii) your name;
- (iii) your examination number;
- (iv) the projection you have used. [3]

Marks for layout. [2]

Marks for quality. [3]

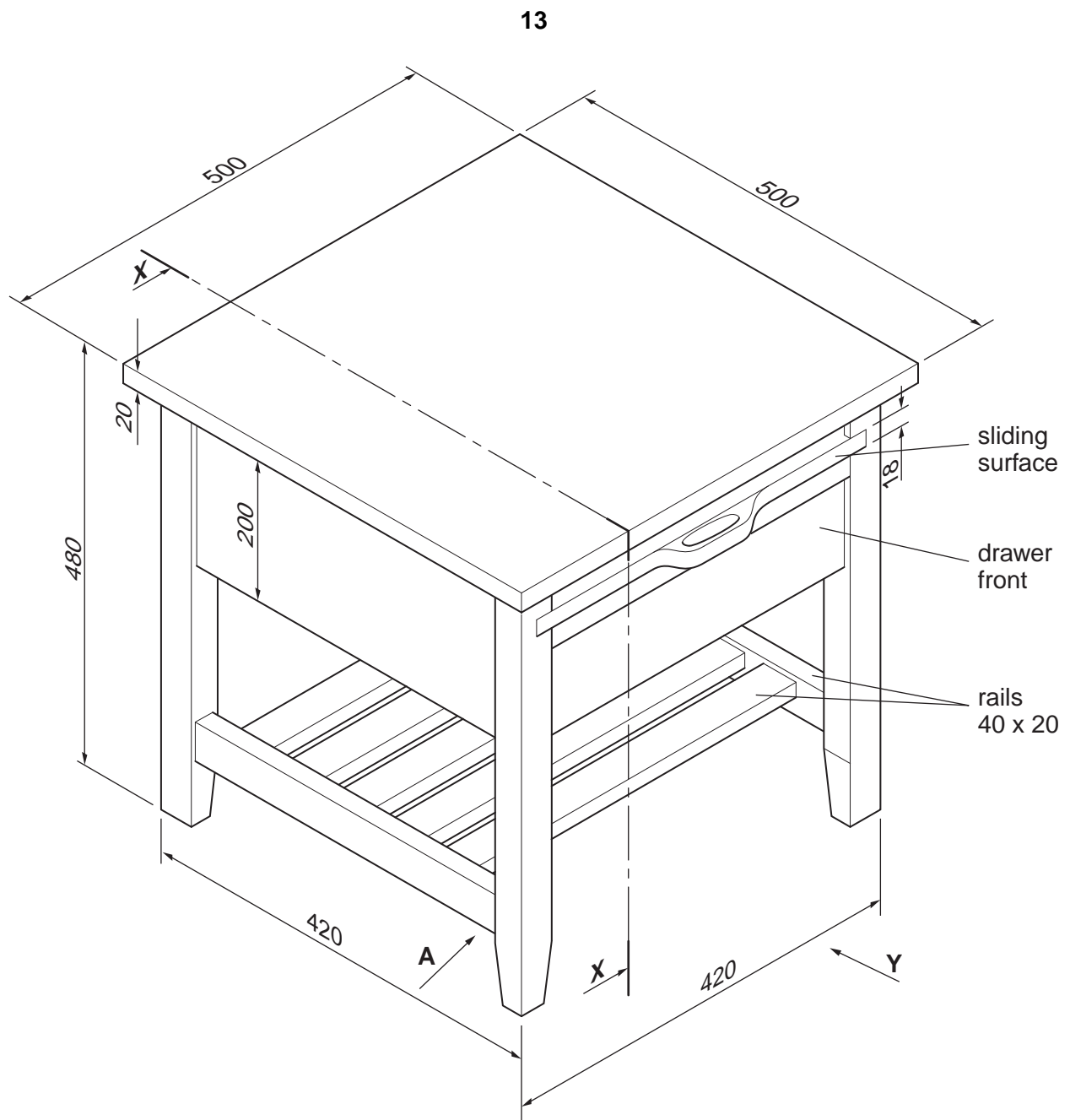


Fig. 13

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